

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

10 | S30 | 12SA

Source:

PCT

Date Processed by STIC:

2 | 13 | 06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 02/13/2006

PATENT APPLICATION: US/10/530,125A

TIME: 12:58:06

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02132006\J530125A.raw

4 <110> APPLICANT: SANWA KAGAKU KENKYUSHO CO.,LTD.  
 6 <120> TITLE OF INVENTION: GLP-1 derivatives and the use  
 8 <130> FILE REFERENCE: JP0304SKK  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/530,125A  
 C--> 10 <141> CURRENT FILING DATE: 2005-04-04  
 10 <150> PRIOR APPLICATION NUMBER: JP 2002-299283  
 11 <151> PRIOR FILING DATE: 2002-10-11  
 13 <160> NUMBER OF SEQ ID NOS: 25  
 15 <170> SOFTWARE: PatentIn version 3.1  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 29  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: Artificial  
 22 <220> FEATURE:  
 23 <223> OTHER INFORMATION: GLP1(7-35)  
 25 <400> SEQUENCE: 1  
 27 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 28 1 5 10 15  
 31 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly  
 32 20 25  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 30  
 37 <212> TYPE: PRT  
 38 <213> ORGANISM: Artificial  
 40 <220> FEATURE:  
 41 <223> OTHER INFORMATION: GLP1(7-36)  
 43 <400> SEQUENCE: 2  
 45 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 46 1 5 10 15  
 49 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg  
 50 20 25 30  
 53 <210> SEQ ID NO: 3  
 54 <211> LENGTH: 30  
 55 <212> TYPE: PRT  
 56 <213> ORGANISM: Artificial  
 58 <220> FEATURE:  
 59 <223> OTHER INFORMATION: 8S-GLP1  
 61 <400> SEQUENCE: 3  
 63 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 64 1 5 10 15  
 67 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg  
 68 20 25 30  
 71 <210> SEQ ID NO: 4

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72 <211> LENGTH: 31
73 <212> TYPE: PRT
74 <213> ORGANISM: Artificial
76 <220> FEATURE:
77 <223> OTHER INFORMATION: GLP1+1R
79 <400> SEQUENCE: 4
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82 1          5          10          15
85 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Arg
86          20          25          30
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90 <211> LENGTH: 32
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial
94 <220> FEATURE:
95 <223> OTHER INFORMATION: GLP1+2R
97 <400> SEQUENCE: 5
99 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
100 1          5          10          15
103 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Arg Arg
104          20          25          30
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108 <211> LENGTH: 32
109 <212> TYPE: PRT
110 <213> ORGANISM: Artificial
112 <220> FEATURE:
113 <223> OTHER INFORMATION: 8S-GLP1+2R
115 <400> SEQUENCE: 6
117 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
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122          20          25          30
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127 <212> TYPE: PRT
128 <213> ORGANISM: Artificial
130 <220> FEATURE:
131 <223> OTHER INFORMATION: 8S-GLP1+3R
133 <400> SEQUENCE: 7
135 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
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140          20          25          30
143 Arg
147 <210> SEQ ID NO: 8
148 <211> LENGTH: 34
149 <212> TYPE: PRT
150 <213> ORGANISM: Artificial
152 <220> FEATURE:

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Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02132006\J530125A.raw

153 <223> OTHER INFORMATION: 8S-GLP1-4R  
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161 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Arg Arg  
162 20 25 30  
165 Arg Arg  
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170 <211> LENGTH: 35  
171 <212> TYPE: PRT  
172 <213> ORGANISM: Artificial  
174 <220> FEATURE:  
175 <223> OTHER INFORMATION: 8S-GLP1+5R  
177 <400> SEQUENCE: 9  
179 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
180 1 5 10 15  
183 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Arg Arg  
184 20 25 30  
187 Arg Arg Arg  
188 35  
191 <210> SEQ ID NO: 10  
192 <211> LENGTH: 36  
193 <212> TYPE: PRT  
194 <213> ORGANISM: Artificial  
197 <220> FEATURE:  
198 <223> OTHER INFORMATION: 8S-GLP1+6R  
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202 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
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206 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Arg Arg  
207 20 25 30  
210 Arg Arg Arg Arg  
211 35  
214 <210> SEQ ID NO: 11  
215 <211> LENGTH: 38  
216 <212> TYPE: PRT  
217 <213> ORGANISM: Artificial  
219 <220> FEATURE:  
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224 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
225 1 5 10 15  
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233 35  
236 <210> SEQ ID NO: 12  
237 <211> LENGTH: 31  
238 <212> TYPE: PRT

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Input Set : A:\pto.da.txt

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239 <213> ORGANISM: Artificial  
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 250 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Lys Arg  
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 256 <212> TYPE: PRT  
 257 <213> ORGANISM: Artificial  
 259 <220> FEATURE:  
 260 <223> OTHER INFORMATION: 8S-des36R-GLP1+2KR  
 262 <400> SEQUENCE: 13  
 264 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 265 1 5 10 15  
 268 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Lys Lys Arg  
 269 20 25 30  
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 273 <211> LENGTH: 33  
 274 <212> TYPE: PRT  
 275 <213> ORGANISM: Artificial  
 277 <220> FEATURE:  
 278 <223> OTHER INFORMATION: 8S-des36R-GLP1+3KR  
 280 <400> SEQUENCE: 14  
 282 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 283 1 5 10 15  
 286 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Lys Lys Lys  
 287 20 25 30  
 290 Arg  
 294 <210> SEQ ID NO: 15  
 295 <211> LENGTH: 35  
 296 <212> TYPE: PRT  
 297 <213> ORGANISM: Artificial  
 299 <220> FEATURE:  
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 302 <400> SEQUENCE: 15  
 304 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
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 308 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Lys Lys Lys  
 309 20 25 30  
 312 Lys Lys Arg  
 313 35  
 316 <210> SEQ ID NO: 16  
 317 <211> LENGTH: 37  
 318 <212> TYPE: PRT  
 319 <213> ORGANISM: Artificial  
 321 <220> FEATURE:

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DATE: 02/13/2006

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TIME: 12:58:06

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\02132006\J530125A.raw

322 &lt;223&gt; OTHER INFORMATION: 8S-des36R-GLP1+7KR

324 &lt;400&gt; SEQUENCE: 16

326 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly

327 1 5 10 15

330 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Lys Lys Lys

331 20 25 30

334 Lys Lys Lys Lys Arg

335 35

338 &lt;210&gt; SEQ ID NO: 17

339 &lt;211&gt; LENGTH: 40

340 &lt;212&gt; TYPE: PRT

341 &lt;213&gt; ORGANISM: Artificial

343 &lt;220&gt; FEATURE:

344 &lt;223&gt; OTHER INFORMATION: 8S-des36R-GLP1+10KR

346 &lt;400&gt; SEQUENCE: 17

348 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly

349 1 5 10 15

352 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Lys Lys Lys

353 20 25 30

356 Lys Lys Lys Lys Lys Lys Lys Arg

357 35 40

360 &lt;210&gt; SEQ ID NO: 18

361 &lt;211&gt; LENGTH: 32

362 &lt;212&gt; TYPE: PRT

363 &lt;213&gt; ORGANISM: Artificial

365 &lt;220&gt; FEATURE:

366 &lt;223&gt; OTHER INFORMATION: 8S-GLP1+2K

368 &lt;400&gt; SEQUENCE: 18

370 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly

371 1 5 10 15

374 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Lys Lys

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378 &lt;210&gt; SEQ ID NO: 19

379 &lt;211&gt; LENGTH: 30

380 &lt;212&gt; TYPE: PRT

381 &lt;213&gt; ORGANISM: Artificial

383 &lt;220&gt; FEATURE:

384 &lt;223&gt; OTHER INFORMATION: 8S26Q34N-GLP1

386 &lt;400&gt; SEQUENCE: 19

388 His Ser Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly

389 1 5 10 15

392 Gln Ala Ala Gln Glu Phe Ile Ala Trp Leu Val Asn Gly Arg

393 20 25 30

396 &lt;210&gt; SEQ ID NO: 20

397 &lt;211&gt; LENGTH: 30

398 &lt;212&gt; TYPE: PRT

399 &lt;213&gt; ORGANISM: Artificial

401 &lt;220&gt; FEATURE:

402 &lt;223&gt; OTHER INFORMATION: 26Q34N-GLP1

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 02/13/2006  
PATENT APPLICATION: US/10/530,125A      TIME: 12:58:07

Input Set : A:\pto.da.txt  
Output Set: N:\CRF4\02132006\J530125A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:25; Xaa Pos. 34 ✓

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25

VERIFICATION SUMMARY

DATE: 02/13/2006

PATENT APPLICATION: US/10/530,125A

TIME: 12:58:07

Input Set : A:\pto.da.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:32